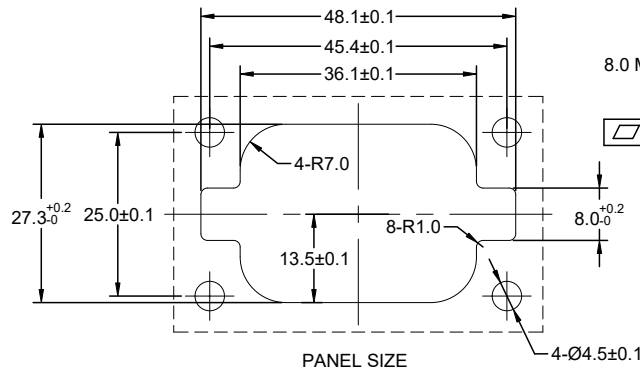
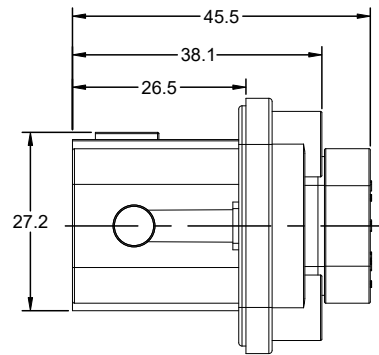
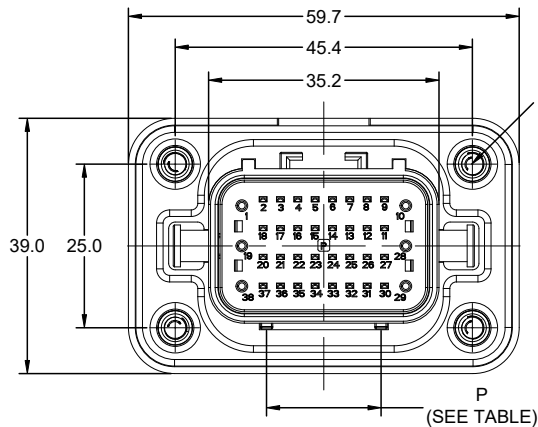
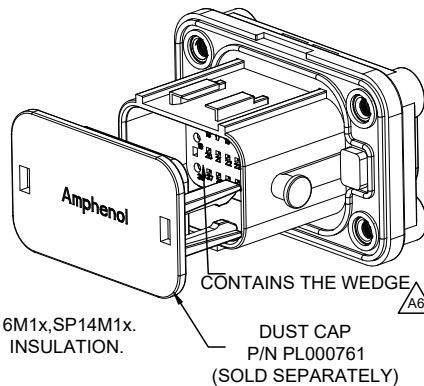
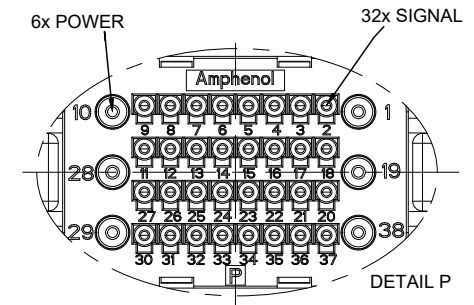
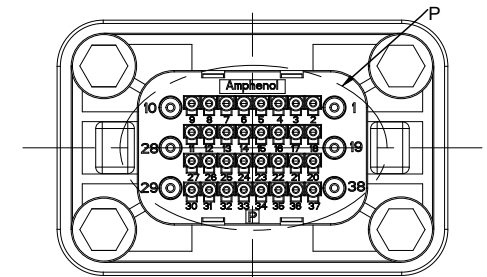




PANEL SIZE



REVISIONS				
REV	ECO	DESCRIPTION	DATE	BY
A3	-	UPDATE DRAWING	Oct-15-2019	Flan
A4	-	UPDATE DRAWING	Nov-12-2019	Flan
A5	-	UPDATE DRAWING	Jun-29-2020	Ronald
A6	-	UPDATE DRAWING	Aug-15-2020	Ronald
A7	-	UPDATE IP CLASS	Jul-9-2021	Flan
A8	-	CHANGE TORQUE FORCE	Jul-17-2024	Ronald



TABLE

KEY POS	P
A	17.50
B	14.50
C	11.50

NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATERIAL:
SHELL: THERMOPLASTIC, UL94 V-0, GRAY.
CONTACT LOCATING COVER: THERMOPLASTIC, UL94 V-0, GREEN.
GASKET: SILICONE RUBBER, RED.
WIRE SEAL: SILICONE RUBBER.
END CAP: THERMOPLASTIC, UL94 V-0, GRAY.
- SPECIFICATIONS:
2.1 RATED CURRENT:
POWER: 13A (MAX).
SIGNAL: 5A (MAX).
2.2 RATED VOLTAGE (CLASS OF POLLUTION II): 250V (AC/DC).
2.3 OPERATING TEMPERATURE: -40°C ~ +125°C.
2.4 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 2000 VOLTS AC.
2.5 INSULATION RESISTANCE: 500 MEGOHMS MIN.
2.6 IP--CLASS: IP67 & IP69K (MATED CONDITION).
2.7 MATING CYCLES DURABILITY: 500 CYCLES.
2.8 RoHS COMPLIANT.
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
- PART NUMBER AND WIRE RANGE: A6

PART NUMBER	SIGNAL (WIRE & OD RANGE)	POWER (WIRE & OD RANGE)	WIRE SEAL COLOR
ATV04-38P*-S2	Ø1.5~1.8mm (20AWG)	Ø1.6~2.8mm (22~14AWG)	RED

***DENOTES KEY WAY. CONTACT SIZE: SIGNAL SC000571x; POWER SP20M1x, SP16M1x, SP14M1x. RECOMMENDED TO CHOOSE HARD WIRE, SUCH AS FEP INSULATION AND XLPE INSULATION.

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
MATERIALS LIST			
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric (mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08 Fractions ±1/64 Angles ±1° 3) Note reference = 		SIGNATURES DATE DRAWN: Ronald Jul-17-2024 CHECKED: Orion Jul-18-2024 ENGINEER: APPROVAL: Tommy Jul-18-2024 CUSTOMER: THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.	
MATERIAL SPECIFICATIONS:		Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036	
PROCESS SPECIFICATIONS:		DURALOK ,ATV,RECEPTACLE,38POS,PIN	
NEXT ASSY:		SIZE: B TYPE: C- SCALE: NONE	DWG NO: ATV04-38P*-Sx REVISION: A8 SHEET 1 OF 1

DuraLok™ Series

Size 16 & 1.0mm x 0.64mm Contact & Tooling Options

Contacts - Stamped & Formed

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm ²)	Insulation OD (mm)	Plating	Reel Size	Packaging
SP14M2T	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Tin-Plated	-	-
SP14M2N	2 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Nickel-Plated	-	-
SP14M2F	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Gold 1μ" Flash	-	-
SP14M2G5	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Gold 5μ" Flash	-	-
SP14M2G10	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Gold 10μ" Flash	-	-
SP14M2G15	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Gold 15μ" Flash	-	-
SP14M2G30	3 Tang Pin	S&F	Size 16	13A	14-16AWG	-	3.2mm	Gold 30μ" Flash	-	-
SP16M2T	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Tin-Plated	-	-
SP16M2N	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Nickel-Plated	-	-
SP16M2F	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Gold Flash	-	-
SP16M2G5	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Gold 5μ" Flash	-	-
SP16M2G10	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Gold 10μ" Flash	-	-
SP16M2G15	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Gold 15μ" Flash	-	-
SP16M2G30	3 Tang Pin	S&F	Size 16	13A	16-18AWG	-	3.2mm	Gold 30μ" Flash	-	-
SP20M2T	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Tin-Plated	-	-
SP20M2F	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Gold 1μ" Flash	-	-
SP20M2G5	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Gold 5μ" Flash	-	-
SP20M2G10	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Gold 10μ" Flash	-	-
SP20M2G15	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Gold 15μ" Flash	-	-
SP20M2G30	3 Tang Pin	S&F	Size 16	13A	20-22AWG	-	2.5mm	Gold 30μ" Flash	-	-
SS14M2T	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Tin-Plated	-	-
SS14M2N	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Nickel-Plated	-	-
SS14M2F	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Gold Flash	-	-
SS14M2G5	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Gold 5μ" Flash	-	-
SS14M2G10	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Gold 10μ" Flash	-	-
SS14M2G15	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Gold 15μ" Flash	-	-
SS14M2G30	3 Tang Socket	S&F	Size 16	13A	14-16AWG	-	3.2mm Insul OD	Gold 30μ" Flash	-	-
SS16M2T	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 30μ" Flash	-	-
SS16M2N	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Nickel-Plated	-	-
SS16M2F	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 1μ" Flash	-	-
SS16M2G5	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 5μ" Flash	-	-
SS16M2G10	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 10μ" Flash	-	-
SS16M2G15	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 15μ" Flash	-	-
SS16M2G30	3 Tang Socket	S&F	Size 16	13A	16-18AWG	-	3.2mm Insul OD	Gold 30μ" Flash	-	-
SS20M2T	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Tin-Plated	-	-
SS20M2N	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Nickel-Plated	-	-
SS20M2F	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Gold 1μ" Flash	-	-
SS20M2G5	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Gold 5μ" Flash	-	-
SS20M2G10	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Gold 10μ" Flash	-	-
SS20M2G15	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Gold 15μ" Flash	-	-

DuraLok™ Series

Size 16 & 1.0mm x 0.64mm Contact & Tooling Options, cont.

Contacts - Stamped & Formed, cont.

Part Number	Type	Style	Contact Size	Amp	Wire Range (AWG)	Wire Range (mm ²)	Insulation OD (mm)	Plating	Reel Size	Packaging
SS20M2G30	3 Tang Socket	S&F	Size 16	13A	20-22AWG	-	2.5mm Insul OD	Gold 30µ" Flash	-	-
SC000571T	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Tin-Plated	-	-
SC000571N	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Nickel-Plated	-	-
SC000571F	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Gold 1µ" Flash	-	-
SC000571G5	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Gold 5µ" Flash	-	-
SC000571G10	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Gold 10µ" Flash	-	-
SC000571G15	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Gold 15µ" Flash	-	-
SC000571G30	Pin	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm	Gold 30µ" Flash	-	-
SC000572T	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Tin-Plated	-	-
SC000572N	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Nickel-Plated	-	-
SC000572F	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Gold 1µ" Flash	-	-
SC000572G5	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Gold 5µ" Flash	-	-
SC000572G10	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Gold 10µ" Flash	-	-
SC000572G15	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Gold 15µ" Flash	-	-
SC000572G30	Socket	S&F	Size 1.0mm x 0.64mm	5A	20-22AWG	-	1.8mm Insul OD	Gold 30µ" Flash	-	-

Tooling

Part Number	Tool Name	Style	Contact Size	Wire Range (AWG)	Material	Color
QXRT16	Contact Extraction Tool (Size 16 Contacts Only)	S&F	Size 16	14-22AWG	Aluminum Alloy	Black
MFX-4017-G or K	Crimp Die Press Applicator (For SC000572x Only)	S&F	Size 1.0 x 0.64mm	20-22AWG	-	-
MFX-4018-G or K	Crimp Die Press Applicator (For SC000571x Only)	S&F	Size 1.0 x 0.64mm	20-22AWG	-	-
MFX-3957	Crimp Die Press Applicator	S&F	Size 16/20	16-20AWG	n/a	n/a
MFX-3954	Hand Crimp Tool (for SS/SP Contacts Only)	S&F	Size 16	14-22AWG	n/a	n/a
MFX-3958	Hand Crimp Tool (Can be used with Duralok SC000572-571 contacts)	S&F	Size 1.0 x 0.64mm	20-22AWG	n/a	n/a
CA-4020-59	Seal Plug	Universal	Size 16/20	n/a	Plastic	White